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(54) MANUFACTURE OF PRINT HEAD FOR INK JET PRINTER

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PURPOSE: To prevent ink from pushed out to an adjacent channel and jetted through an adjacent nozzle by polishing the junction fades of first and second plates of a photosensitive glass so that a specific center line average roughness is achieved and then stacking the first and second plates and fusing them thermally.

CONSTITUTION: A photosensitive glass is cut out into first and second hexagonal plates. An ink sump groove 3, a jet groove 4, a flow-out channel 5 and an ink supply through-hole 6 are formed in the first plate 1 whereas an ink sump through-hole 7 and an ink supply channel 8 are formed in the second plate 2. Average center line roughness (R_a) on one junction face of these plates is set $0.04\mu m$ or less and that on the other opposing junction face is set in the range of $0.3-5.0\mu m$. These plates are then stacked and thermally fused leaving no unfused part between the junction faces.

